

GenCore version 5.1.4 p5 4578
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OM nucleic - nucleic search, using sw model

Run on: March 30, 2003, 00:35:07 ; Search time 242.403 Seconds

(without alignments)

12904.233 Million cell updates/sec

Title: US-09-768-781-2

Perfect score: 1389

Sequence: 1 atgaacacaaagaccacacaa.....caaggcaagtggtctga 1389

Scoring table: IDENTITY NUC

Gapop 10_0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Genesec_101002.*

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24: /SID22/gcgdata/genesec/genesecq-emb1/NA2002.DAT.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	526.8	37.9	532	24	ABL89709 Human polynucleotide
2	515.4	37.1	531	23	CDNA encoding nove
3	291.2	21.0	5096	24	Stomach cancer rel
4	283.6	20.4	5215	24	Novel human coding
5	272.2	19.6	668	22	Human breast cell
6	272.2	19.6	668	22	Human foetal liver
7	272.2	19.6	668	22	Probe #10048 for g
8	272.2	19.6	668	22	Human brain expres
9	272.2	19.6	668	22	Human bone marrow

10	272.2	19.6	668	22	AAI19430	Probe #9363 for ge
11	272.2	19.6	668	22	AAI44621	Probe #13307 used
12	272.2	19.6	668	22	AAI05155	Probe #5146 used t
13	272.2	19.6	668	24	ABS12699	Human genome-deriv
14	176.8	12.7	471	22	ABA51767	Human foetal liver
15	176.8	12.7	471	22	ABA21596	Probe #62 for gene
16	176.8	12.7	471	22	AAK00075	Human brain expres
17	176.8	12.7	471	22	AAK25512	Human bone marrow
18	176.8	12.7	471	22	AAI10135	Probe #68 for gene
19	176.8	12.7	471	22	AAI31384	Probe #70 used to
20	176.8	12.7	471	22	AAI00076	Probe #67 used to
21	176.8	12.7	471	24	ABS00080	Human genome-deriv
22	173	12.5	1588	19	AAV69647	XK related Y (XKRY
23	162	11.7	384	22	ABA36103	Probe #14569 for g
24	162	11.7	384	22	AAK17479	Human brain expres
25	161.8	11.6	626	22	AAF93700	CDNA encoding SRT
26	142	10.2	498	22	ABA26217	Probe #4683 for ge
27	142	10.2	498	22	AAK04747	Human brain expres
28	73.2	5.3	294	22	ABA48894	Human breast cell
29	73.2	5.3	294	22	ABA66814	Human foetal liver
30	73.2	5.3	294	22	ABA33877	Probe #12343 for g
31	73.2	5.3	294	22	AAK15243	Human brain expres
32	73.2	5.3	294	22	AAK40967	Human bone marrow
33	73.2	5.3	294	22	AAI21737	Probe #11670 for g
34	73.2	5.3	294	22	AAI07422	Probe #15708 used
35	73.2	5.3	294	22	AAI07422	Probe #7413 used t
36	73.2	5.3	294	22	ABS14934	Human genome-deriv
37	65	4.7	477	22	ABA43790	Human breast cell
38	65	4.7	477	22	ABA54250	Human foetal liver
39	65	4.7	477	22	ABA24001	Probe #2467 for ge
40	65	4.7	477	22	AAK02527	Human brain expres
41	65	4.7	477	22	AAK27964	Human bone marrow
42	65	4.7	477	22	AAI12547	Probe #2480 for ge
43	65	4.7	477	22	AAI33897	Probe #2583 used t
44	65	4.7	477	22	AAI02452	Probe #2443 used t
45	65	4.7	477	24	ABS02431	Human genome-deriv

ALIGNMENTS

RESULT 1

ABL89709

ID ABL89709 standard; cDNA; 532 BP.

XX ABL89709;

XX

DT 24-MAY-2002 (first entry)

XX

DE Human polynucleotide SEQ ID NO 271.

XX

KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antitumor;
KW vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
KW neurological disease; infection; human; secreted protein; gene; ss.

OS Homo sapiens.

XX

PN WO200190304-A2.

XX

PD 29-NOV-2001.

XX

PF 18-MAY-2001; 2001WO-US16450.

XX

PR 19-MAY-2000; 2000US-205515P.

XX

PA (HUMA-) HUMAN GENOME SCI INC.

XX

PI Birse CE, Rosen CA;

XX

DR WPI; 2002-122018/16.

XX

P-PSDB; ABB89300.

XX Novel 1405 isolated polypeptides, useful for diagnosis, treatment and
PT prevention of neural, immune system, muscular, reproductive,
PT gastrointestinal, pulmonary, cardiovascular, renal and proliferative
PT disorders -
XX
PS Claim 4; SEQ ID NO 271; 2081pp + Sequence Listing; English.
XX
CC The invention relates to novel genes (ABL89449-ABL90853) and proteins
CC (AB89040-AB90444) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful
CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
CC and ovarian cancer and other cancers of the adrenal gland, bone, bone
CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune
CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative
CC colitis; (c) cardiovascular disorders such as myocardial ischaemia;
CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and
CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
CC and parasitic infections.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 532 BP; 109 A; 129 C; 121 G; 168 T; 5 other;

Query Match 37.9%; Score 526.8; DB 24; Length 532;
Best Local Similarity 98.9%; Pred. No. 5e-151;
Matches 525; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
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Db 2 GGAGATCACTTCCCGCTCTGATTCCTGATCATCTCTTGGAGCCCTGATTAAGTTCTG 121
QY 846 TGTGCTCTCTAGTGTCTCACTTCTGATCATCTCTTGGAGCCCTGATTAAGTTCTG 905
Db 62 TGTGCTCTCTAGTGTCTCACTTCTGATCATCTCTTGGAGCCCTGATTAAGTTCTG 121
QY 906 GAGAGTGTGTCAGATGCCCAATAACATTGAGAAAACTTTCAGCCGGTTCGGCACTCT 965
Db 122 GAGAGTGTGTCAGATGCCCAATAACATTGAGAAAACTTTCAGCCGGTTCGGCACTCT 181
QY 966 GGTGTCTCTGATTTTCAGTCAACATCCTCTATCTGTCGATCAACTTCTTGTGTGTCAGC 1025
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QY 1026 TTTGAGTTGAGTTGGCGACAGAGATCTCTGACAAAGGGCAGAACTGGGACATAT 1085
Db 242 TTTGAGTTGAGTTGGCGACAGAGATCTCTGACAAAGGGCAGAACTGGGACATAT 301
QY 1086 GGGCTGCACTATAGTGTGAGGTGTGTAGAGATGTGATCATGCTTGGTTTAAAGTT 1145
Db 302 GGGCTGCACTATAGTGTGAGGTGTGTAGAGATGTGATCATGCTTGGTTTAAAGTT 361
QY 1146 CTTTGGAGTGAAGTTTACTGAATTTACTGTCTATTCCTTGTATTCCTTCAGCTCATTTAT 1205
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QY 1206 TGTCTATCTGATTTCCATGGCTTCATGCTCCTTTTCTTCCAGTACTTCCATCCATTGGG 1265
Db 422 TGTCTATCTGATTTCCATGGCTTCATGCTCCTTTTCTTCCAGTACTTCCATCCATTGGG 481
QY 1266 CTCACCTTTACCCATATAGTAGTACTACCTCCATTCGTCTCTGTCA 1316
Db 482 CTCACCTTTACCCATATAGTAGTACTACCTCCATTCGTCTCTGTCA 532

RESULT 2
ABK41708
ID ABK41708 standard; cDNA; 531 BP.

XX AC ABK41708;
XX
DT 21-MAY-2002 (first entry)
XX
DE cDNA encoding novel human connective tissue related polypeptide #96.
XX
KW Human; connective tissue related disorder; cancer; gene therapy;
KW cytosolic; gene; ss.
OS Homo sapiens.
XX
PN WO200155343-A1.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US01322.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
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PR 14-AUG-2000; 2000US-0225213.
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PR 14-AUG-2000; 2000US-0225758.
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PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
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PR 22-AUG-2000; 2000US-0227182.
PR 30-AUG-2000; 2000US-0227009.
PR 23-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 05-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 06-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
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PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.

PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
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PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
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PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
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PR 29-SEP-2000; 2000US-0236370.
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PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
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PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
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PR 17-NOV-2000; 2000US-0249244.
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PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.

PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-565190/63.
DR P-PSDB; AAU86530.
DR
XX
XX

PT Nucleic acid encoding novel connective tissue associated polypeptides,
PT used in diagnosing, preventing, treating or ameliorating a disorder
PT such as cancer or rheumatoid arthritis -
XX
XX
PS Claim 4; SEQ ID No 106; 673pp; English.
XX

CC The present invention relates to the isolation of novel human connective
CC tissue related polypeptides (AAU86435-AAU86923) and the polynucleotide
CC (cDNA and genomic) sequences encoding them. The sequences of the
CC invention are useful in the diagnosis, treatment, prevention and/or
CC prognosis of diseases associated with connective tissue(s), including
CC cancer. The polynucleotide sequences of the invention are also useful
CC in gene therapy. ABK41613-ABK42101 represent cDNA sequences encoding
CC the novel human connective tissue related polypeptides.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX

SQ Sequence 531 BP; 109 A; 128 C; 121 G; 168 T; 5 other;

Query Match 37.1%; Score 515.4; DB 23; Length 531;
Best Local Similarity 98.7%; Pred. No. 1.6e-147;
Matches 524; Conservative 5; Mismatches 1; Indels 1; Gaps 1;

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DB 2 GGAGATCACTTCCGGCTCCTGATTCGTGCTCTCTTCAGCCACTTTGAATTAAGGC 61
QY 846 TGTGCCCTTCTAGTGTCTCAACTTCTGTGATCATCTCTTTGAGCCCTGGATTAAGTCTG 905
DB 62 TGTGCCCTTCTAGTGTCTCAACTTCTGTGATCATCTCTTTGAGCCCTGGATTAAGTCTG 121
QY 906 GAGAGTGTGCCCAGATGCCCAATACATTGAGAAAACCTTCAGCCGGTGGGCACCTCT 965
DB 122 GAGAGTGTGCCCAGATGCCCAATACATTGAGAAAACCTTCAGCCGGTGGGCACCTCT 181
QY 966 GGTGGTCTGATTTTCAGTCAACCATCTCTATGTGGCATCAACTTCTCTGCTGTGTCAGC 1025
DB 182 GGTGG-CTTGATTTTCAGTCAACCATCTCTATGTGGCATCAACTTCTCTGCTGTGTCAGC 240
QY 1026 TTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTGGGGACATAT 1085
DB 241 TTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTTCGACAAAGGGCAGAACTGGGGACATAT 300
QY 1086 GGGCCTGCACATATAGTGTGAGGTTGGTAGAGATGTGATCATGCTCTTGGTTTAAAGTT 1145
DB 301 GGGCCTGCACATATAGTGTGAGGTTGGTAGAGATGTGATCATGCTCTTGGTTTAAAGTT 360
QY 1146 CTTTGGAGTGAAGTGTACTGATTAAGTGTCTTCTGATTCCTTCATTCGCTTGGAGCTCATAT 1205
DB 361 CTTTGGAGTGAAGTGTACTGATTAAGTGTCTTCTGATTCCTTCATTCGCTTGGAGCTCATAT 420
QY 1206 TGCTTATCTGATTTCCATTTGGCTTTCATGCTCTCTTTTCTCCAGTACTTGCATTCATTCGCG 1265
DB 421 TGCTTATCTGATTTCCATTTGGCTTTCATGCTCTCTTTTCTCCAGTACTTGCATTCATTCGCG 480
QY 1266 CTCACCTTTCCACCAATAATGTAGTAGACTACCTCCCAATGTGTCTGTGTCTCA 1316

Db 481 CTCACCTTCCACCATAATGTAGTACTACCTCCATTGCTGCTGTCA 531

RESULT 3

ABL64686

ID ABL64686 standard; DNA; 5096 BP.

XX ABL64686;

AC ABL64686;

XX 15-MAY-2002 (first entry)

XX Stomach cancer related gene sequence SEQ ID NO:3023.

XX Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
XX stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
XX cytotoxic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
XX cys; ds.

XX Homo sapiens.

XX WO200194629-A2.

XX 13-DEC-2001.

XX 30-MAY-2001; 2001WO-US10838.

XX 05-JUN-2000; 2000US-209473P.

XX 18-SEP-2000; 2000US-209531P.

XX 18-SEP-2000; 2000US-233133P.

XX 20-SEP-2000; 2000US-233617P.

XX 20-SEP-2000; 2000US-234009P.

XX 20-SEP-2000; 2000US-234034P.

XX 20-SEP-2000; 2000US-234052P.

XX 22-SEP-2000; 2000US-234509P.

XX 22-SEP-2000; 2000US-234567P.

XX 25-SEP-2000; 2000US-234924P.

XX 25-SEP-2000; 2000US-235077P.

XX 25-SEP-2000; 2000US-235082P.

XX 25-SEP-2000; 2000US-235134P.

XX 25-SEP-2000; 2000US-235280P.

XX 26-SEP-2000; 2000US-235637P.

XX 27-SEP-2000; 2000US-235711P.

XX 27-SEP-2000; 2000US-235720P.

XX 27-SEP-2000; 2000US-235840P.

XX 28-SEP-2000; 2000US-235863P.

XX 28-SEP-2000; 2000US-236028P.

XX 28-SEP-2000; 2000US-236032P.

XX 28-SEP-2000; 2000US-236033P.

XX 28-SEP-2000; 2000US-236034P.

XX 28-SEP-2000; 2000US-236109P.

XX 29-SEP-2000; 2000US-236111P.

XX 29-SEP-2000; 2000US-236842P.

XX 29-SEP-2000; 2000US-236891P.

XX 02-OCT-2000; 2000US-237172P.

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XX 02-OCT-2000; 2000US-237278P.

XX 02-OCT-2000; 2000US-237294P.

XX 02-OCT-2000; 2000US-237295P.

XX 02-OCT-2000; 2000US-237316P.

XX 03-OCT-2000; 2000US-237425P.

XX 03-OCT-2000; 2000US-237598P.

XX 03-OCT-2000; 2000US-237604P.

XX 03-OCT-2000; 2000US-237606P.

XX 01-NOV-2000; 2000US-237608P.

XX 01-NOV-2000; 2000US-244867P.

XX 01-NOV-2000; 2000US-245084P.

XX (AVAL-) AVALON PHARM.

XX Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;

XX

PI Soppet DR, Weaver Z;

XX WPI; 2002-188264/24.

XX Screening for anti-neoplastic agent involves exposing cells to a

PT chemical agent to be tested for anti-neoplastic activity, and

PT determining a change in expression of a gene of a signature gene set -

XX Claim 1; SEQ ID 3023; 44pp; English.

XX The present invention describes a method (M1) for screening for an
CC anti-neoplastic agent. The method involves exposing cells to a chemical
CC agent to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening
CC an anti-neoplastic agent, and can be used for producing a product which
CC is the data collected with respect to the anti-neoplastic agent as a
CC result of M1, and the data is sufficient to convey the chemical
CC structure and/or properties of the agent. M1 can be used in the
CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
CC oesophageal, ovarian, kidney, prostate or pancreatic cancer,
CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
CC carcinoma, papillary carcinoma and Wilm's tumour.

SQ Sequence 5096 BP; 1392 A; 1064 C; 1022 G; 1618 T; 0 other;

Query Match

Best Local Similarity 21.0%; Score 291.2; DB 24; Length 5096;

Matches 628; Conservative 0; Mismatches 508; Indels 12; Gaps 2;

QY 157 TCCACCTTTTGTACTGTGGGAGCTGCATCTGTTGTACATGTTAGATTCTATCGA 216

Db 110 TCCGTGTTCTCTGTCGCCGAGACAACGGCGCGCTCAGCCTGAGCAGCACTACCGC 169

QY 217 AAGATAGTGAACCTTACTGGATGACATACACCTTTCTTTCTTTATGTTTCATCAATT 276

Db 170 TCGGGCGGGGACCGCATGTGGCAGGCGTGTGCTTTCTCGCTACTGCTTCTGGCG 229

QY 277 ATGCTCCAGTTGACCTCATTTTCTCCACAGAGATCTAGCCAAAGATAAACCCTATCA 336

Db 230 CTCGTGAGCTCAGCTTCTCTCTACACCGCGACCTCAGCGCGACCGCCGCTCGTA 289

QY 337 TTATTTATGCATCTAACTCTCTGGGACCTGTTATCAGATGTTGGAGCCATGATTAAG 396

Db 290 CTGCTGCTGCACCTGCTGCAACTTGGGCCCTTTTTCAGGTGTTTGAAGTCTTCTGCATC 349

QY 397 TACCTCACACTGTGGAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 456

Db 350 TACTTTTCTGAG 400

QY 457 AAG---ATGCTAATAGATGGCGAGGAGGTGCTGATAGATAGGAGGTGGGCCACTCCATC 513

Db 401 AGGCAATGCCAAATAATGGCTCTCAGAGAGATGAGAGAGGTGGGCCAGGAGAA 460

QY 514 CGGACCTGGCTATGACCGCAATGCCCTACAAACGATGTACAGATCAAGCCTTCCTG 573

Db 461 GGCAAACTAATCACCACCGATCAGCGTTACGCCGGCGTGGTGTATCCAGGCTTTCTTG 520

QY 574 GGCTCAGTGGCCAGCTGACCTATCAGCTCTATGTAGCCTGATCTCTCAGAGGTTCCC 633

Db 521 GGCTCAGGCCCCCAGCTGACCTGACAGCTGTACATAAGTGTATGACGAGGACGTCAC 580

QY 634 CTGGGTAGAGTTGTCTAATGTTATTTTCCCTGGTATCTGTCCCTATGCGGCCACCTT 693

Db 581 GTTGAAGAAGTCTCTCATGACCATATCCCTGTTGTCATGTTGTATGAGCCTTGGCG 640

QY 694 TGCAATATGTTGGCTATCCAGATCAAGTACGATGACTACAAGATTGCGCTTGGGCCACTA 753

Db 641 TGCAATCTCTAGGCATCAAAATCAAGTACGATGATGATGAAGTCAAGTCAAGGCTCTG 700

Qy 754 GAAGTCCTCTGATCACCATCTGGGAGCATTGGAGATCACATTCGCCCTCTCTGATTCTG 813
Db 701 GCCTATGCTGTATCTTCTGCTGGAGAGCTTTTGAGATTGCCACTCGAGTTGTAGTCTTG 760
Qy 814 GTGCTCTTCTGACGCACTTTGAAATTGAAGGCTGTGGCCCTTCTAGTGTCTCAACTTCTTG 873
Db 761 GTCTCTTTTACCTCGCTGAGACCTGGGTGGTGTATATATCTCATCACTTCTTCTC 820
Qy 874 ATCATCTCTTTGAGCCCTGGATTAAAGTTCTGGAGAGTGGTGGCCAGATGCCCAATAAC 933
Db 821 AGTTTCTTCTTGTACCCCTGGATCTCTTCTGGTGGTGGTGGTGGTGGTGGTGGTGGT 880
Qy 934 ATTGAGAAAAATTCAGCCGGTGGCACTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 993
Db 881 ATAGAGAGGCCCTCAGTAGAGTGGGACCACTTGTACTATGCTTTCTAACTTTACTC 940
Qy 994 TATGCTGGCATCACTTCTCTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1053
Db 941 TATACTGGTATCAACATGTTCTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1000
Qy 1054 CTCGTCGACAAAGGCGAGCACTGGGAGCATATGGGCTGCATATAGTGTGAGTTGGTA 1113
Db 1001 CTCATCAGCAAGTCCCATATTTGGTACCTGCTGTACAGCTACTGGTGTATACATGATAAGATTTCATC 1060
Qy 1114 GAGAAATGTGATCATGCTCTGTGTTTTTAAGTTCTTTGGAGTGAAGCTGTACTGAATTAC 1173
Db 1061 GAGAAATGCATCT 1120
Qy 1174 TGTCAATCTCTGATTCGCTTGGAGCTCATTTATTTGCTTATCTGATTTCCATTTGGCTTCATG 1233
Db 1121 TGGCACCCTCTGTTGGTCTGCTGAGCTGCTCATTTGGTACTGCGACAGCCATCTCTTCATG 1180
Qy 1234 CTCCTTTTCTTCAGTACTTGCATCACTTGGCTGCTACTCTTCCACCATTAATAGTAGAGAC 1293
Db 1181 CTGTGATTTCTATCAGTTCTTCCACCTTGCACCCCTGCAAAAGAGCTCTTTTCTTCCAGTGTCTGAA 1240
Qy 1294 TACCTCCA 1301
Db 1241 GGCYTTCA 1248

RESULT 4
ABNS9695
ID ABNS9695 standard; cDNA; 5215 BP.
XX
AC ABNS9695;
XX
DT 28-JUN-2002 (first entry)
DE Novel human coding sequence SEQ ID NO: 106.
KW Human; antianaemic; vulnery; antiinflammatory; immunomodulator;
KW antiinfectivity; cerebroprotective; cytostatic; rheumatic; gene therapy;
KW neuroprotective; antiparkinsonian; protein therapy; EST;
KW expressed sequence tag; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200222660-A2.
XX
PD 21-MAR-2002.
XX
PF 10-SEP-2001; 2001WO-US26015.
XX
PR 11-SEP-2000; 2000US-0659671.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;
PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;
XX
XX WPI; 2002-292408/33.

DR P-PSDB; ABB97282.
XX An isolated polynucleotide for treating diseases associated with its
PT encoded polypeptide such as cancer and multiple sclerosis -
XX
PS Claim 1; SEQ ID NO 106; 509pp; English.
XX
CC The present invention provides the protein and coding sequences of 444
CC novel human proteins. These were isolated from expressed sequences tags
CC (ESTs). They can be used to stimulate cell growth, to regulate
CC haematopoiesis e.g. to treat aplastic anaemia, to help tissue regrowth
CC e.g. in burn treatment, to regulate the immune system e.g. to treat
CC multiple sclerosis, to regulate activin or inhibin e.g. to treat
CC infertility, to regulate haemostasis or thrombolysis e.g. to treat
CC stroke and cancer, to screen for drugs, to treat inflammatory conditions
CC e.g. rheumatoid arthritis, and to treat nervous system disorders e.g.
CC Parkinson's disease. The present sequence is a coding sequence of the
CC invention.
XX
SQ Sequence 5215 BP; 1458 A; 1058 C; 1035 G; 1664 T; 0 other;

Query Match 20.4%; Score 283.6; DB 24; Length 5215;
Best Local Similarity 55.5%; Pred. No. 9e-76;
Matches 594; Conservative 0; Mismatches 464; Indels 12; Gaps 2;
Qy 235 TGGATGACATACACCTTTTCTTTTATGTTTTCATCCATTATGTCAGTTGACCCCTC 294
Db 307 TGGAGGCGCTCAGCTTGTCTTTCTCGTACTGCTTGGCGCTCGTGCAGCTCACGCTT 366
Qy 295 ATTTTGTCCAGAGATCTAGCCAAAGATAAACCGCTATCATTTATTCATCTAATC 354
Db 367 CTCTCGTACACCGACCTCAGCGCGACCGCCGCTCGTACTGCTGCGACCTGCTG 426
Qy 355 CTCTTGGGACCTGTATCAGATGTTTGGAGGCCATGATTAAGTACCTCAGCTGTGGAAG 414
Db 427 CAACCTTGGGCCCCCTTTTCAGGTGTTTGAAGTCTTCTGTCATCTACTTTC-----AG 477
Qy 415 AAAGAGGACGAGGAGGCGCTATGTCAGCTCACCAGGAAAGAG---ATGCTAATAGAT 471
Db 478 TCAGGCNACATGAAGAGCTTATGTAGTATCACCAGAGGCAAAATGCCAAANAAT 537
Qy 472 GCGAGGAGGCTCTGATAGAATGGAGGTGGGCCACTTCCATCCGAGCCCTGGCTATGSCAC 531
Db 538 GGCCTCTCAGAGGAGATTGAGAAGGAGGTGGCCAGCGAGAGGCAAACTAATCACCAC 597
Qy 532 CGCAATGCCATCAAAGTATGCAAGATCCAAAGCCTTCTTGGGCTCAGTGGCCCCAGCTG 591
Db 598 CGATCAGCGCTTCAGCGGGCGTGGTGTATCCAGGCTTTCTTGGGCTCAGCCCCCAGCTG 657
Qy 592 ACCTATCAGCTCTATGTGAGCCTGATCTCTGCAGAGGTTCCCTGGGTAGAGTTGCTA 651
Db 658 ACCCTACAGCTGTACATAAGTGTCTGTCAGAGGAGCGTCACTGTTGGAGAGTCTCCTC 717
Qy 652 ATGTGATTTTCCCTGCTATCTGTACCTATGGGGCCACCTTTGCAATATGTTGGCTATC 711
Db 718 ATGACCATATCCCTGTTGTCATTTGATGAGCCCTTGGGCTGCAACATCTTAGCCATC 777
Qy 712 CAGATCAAGTACGATGACTACAGATTCGCTTGGGCCACTAGAAGTCTCTGCATCACC 771
Db 778 AAAATCAAGTACGATGATGAAGTCAAAGTGAAGGCTCTGGCCTATGTCTGTATCTTC 837
Qy 772 ATCTGGGAGCATTTGGAGATCACTTCCCGCTCCTGATTTCTGGTGTCTTCTCAGCCACT 831
Db 838 CTGTGGAGGAGCTTTGAGATTGCCACTCGAGTTGTAGTCTCTGGTCTCTTTACTCCGTC 897
Qy 832 TTGAAATTCAGGCTGTGCCCTTCTTAGTGTCAACTTCTGTATCATCTCTTTTGGAGCCC 891
Db 898 CTGAAGACCTGGGTGGTGTATATACTCATCAACTTTCTTCACTTTCTTCTTGTACCCC 957
Qy 892 TGGATTAAAGTCTTGGAGAGTGGTGGCCAGATGCCCAATAACATTGAGAAAAACTTTCAGC 951
Db 958 TGGATCCTCTTCTGGTGCAGTGGTTCCCATTTCCCTGAGNACATAGAGAGGCCCTCAGT 1017

Qy 952 CGGGTGGGCACTCTGGTGGTCTGATTTTCAGTCACCATCTCTATGCTGGCACTCAACTTC 1011
Db |||||
Qy 1018 AGAGTGGGCAACCACTTGTACTACTGCTTTCTAACTTTTACTCTACTGTTCAACATG 1077
Db |||||
Qy 1012 TCTTCTGGTCTAGCTTTGAGTTGAGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAG 1071
Db |||||
Qy 1078 TTCTGCTGGTCTGCTGTACAGCTGAAATTTGACAGCCCTGACCTCATCATCAGCAAGTCCCAT 1137
Db |||||
Qy 1072 AACTGGGACATATGGGCTGCACTATAGTGTGAGTTGGTAGAGAAATGATCATGTGTC 1131
Db |||||
Qy 1138 AATTGGTACCAGCTACTGGTGTATTACATGATAAGAAATCATCGAAGATGCCATCTCTCTC 1197
Db |||||
Qy 1132 TTGGTTTTTAAGTTCTTTGGAGTGAAGTGTACTGAATTTACTGTCTATTCTTTGATTTGCC 1191
Db |||||
Qy 1198 CTCCTGTGTATCTTTTCAAGACTGACATCTATATGTATGTGTGGCACCCTCTGTTGGTC 1257
Db |||||
Qy 1192 TTGAGCTCATATTATGCTTATCTGATTTCCATTTGCTTTCATGCTCTCTTTTCTTCAGTAC 1251
Db |||||
Qy 1258 CTGACGCTGCTCATTTGGGTACTGTCAGCAGCAATCTCTTCTATGCTTGTATTCTATCAGTTTC 1317
Db |||||
Qy 1252 TTGCATCCATTGGCGCTCACTCTTCAACCCATATGATAGTACTCACTCCA 1301
Db |||||
Qy 1318 TTCACCCCTTGCAAAAGCTCTTTTCTTCCAGTGTCTTCTGAAGGCTTTTCA 1367
Db |||||

RESULT 5

ABR46582
ID ABA46582 standard; DNA; 668 BP.

XX AC ABA46582;

XX DT 01-FEB-2002 (first entry)

XX DE Human breast cell single exon nucleic acid probe #5277.

XX KW Human; microarray; single exon probe; gene expression; breast;

XX KW disease; cancer; ss.

XX OS Homo sapiens.

XX XX WO200157271-A2.

XX XX 09-AUG-2001.

XX XX 30-JAN-2001; 2001WO-US00662.

XX XX 04-FEB-2000; 2000US-0180312.

XX XX 26-MAY-2000; 2000US-0207456.

XX XX 30-JUN-2000; 2000US-0608408.

XX XX 03-AUG-2000; 2000US-0632366.

XX XX 21-SEP-2000; 2000US-0234687.

XX XX 27-SEP-2000; 2000US-0236359.

XX XX 04-OCT-2000; 2000GB-0024263.

XX XX (MOLE-) MOLECULAR DYNAMICS INC.

XX XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX XX WPI; 2001-496933/54.

XX XX New spatially-addressable set of single exon nucleic acid probes,

XX XX useful for measuring gene expression in sample derived from human

XX XX breast, comprises number of single exon nucleic acid probes -

XX XX Claim 4; SEQ ID NO 5277; 327pp + sequence listing; English.

XX XX The invention relates to a spatially-addressable set of single exon

XX XX nucleic acid probes for measuring gene expression in a sample derived

XX XX from human breast and Br 474 cells. The method involves contacting

XX XX the probes with a collection of detectably labelled nucleic acids

XX XX derived from mRNA of human breast, and then measuring the label

XX XX bound to each probe of the microarray. The probes are useful for

XX XX verifying the expression of regions of genomic DNA predicted to.

CC encode proteins. They are useful for gene discovery, and for
CC determining predisposition and/or prognosing breast disease. Gene
CC expression analysis is useful for assessing the toxicity of chemical
CC agents on cells. The microarray of this invention presents a far greater
CC diversity of probes for measuring gene expression, with far less bias
CC than expressed sequence tag microarrays. The method is suitable for
CC rapid production of functional information from genomic sequence. The
CC present sequence is a single exon nucleic acid probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX XX

Qy Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match 19.6%; Score 272.2; DB 22; Length 668;
Best Local Similarity 65.3%; Pred. No. 8.4e-73;

Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps 0;

Qy 657 ATTTTCCCTGGTATCTGTACCATATGGGGCCACCCCTTTTGCATATATTTGGCTATCCAGAT 716

Db 2 ATTTTCCCTGGTATCTGTACCATATGGGGCCATTCGCTGCATATATATGGCCATCCAGAT 61

Qy 717 CAAGTACGATGACTACAAAGATTCGGCTTGGGCCACTAGAAAGTCTCTGCATACCACTCTG 776

Db 62 CAGCAATGATGATACCTACCATTTAAGCTACCGCCGATAGAAATCTTCTGTGCTGATGTG 121

Qy 777 GCGGACATTTGGAGATCACTTCCGGCTCTCTGATTTCTGTGCTCTCTTCAGCCACTTTGAA 836

Db 122 GCGTTTTTTGGAGGTTATCTCAGCTGTAGTACTCTGGCAATTTTTCATTTGCACTCTCTGAA 181

Qy 837 ATTTGAAGGCTGTGCCCTTCTAGTCTCAACTCTCTGTATCTCTTGTAGCCCTCTTGTAGCCCTGGAT 896

Db 182 ACTGAAGAGCTTACCCTGTTTGTAAATATATATTTGTATCTTTGGCACCCTGGCT 241

Qy 897 TAACTTCTGGAGAGTGGTGGCCAGATGCCCAATTAACATTGAGAAAAAATTTCCAATATGGT 956

Db 242 GGAGTTTTTGGAAAAAGTGGAGCTCATCTTCTGGCAACAAAGAAAAATAATTTCCAATATGGT 301

Qy 957 CGGCACTCTGGTGGTCTGATTTTCACTCACCATCTCTATGCTGGCATCACTTCTCTTG 1016

Db 302 GGGTACAGTACTGATGCTTTTCTTGATCAGCTGTATATGCTGCCATCACTTCTCTTG 361

Qy 1017 CTGCTCAGCTTTTGGAGTTGAGGTTGGCAGACAGAGATCTGTCGACAAAAGGGCAGAACTG 1076

Db 362 CTGCTCAGCAGTGAACCTGCACTTGTCTAGATGACAAATAATTTGACGGGAGACAGAGGTTG 421

Qy 1077 GGGACATATGGCCCTGCACTATAGTGTGAGGTTGGTAGAGAAATGTATCATGCTTTGGT 1136

Db 422 GGGCCATAGAAATCTTACACTACAGCTTTTTCAGTTTTTGTAGAAAATGTATGATATTTGGT 481

Qy 1137 TTTTAAAGTTCTTTGGAGTGAAGTGTACTGAATTTACTGTCTCATTTCTTGTATGCTTGA 1196

Db 482 ATTTAGGTTCTTTGGAGGGAACCTTTGCTGAATTTGTGTGACTCATTTAATTTGCCGTGCA 541

Qy 1197 GCTCATTATGCTTATCTGATTTTCCATTGGCTTCACTGCTCTTTTCTTCCAGTACTTGA 1256

Db 542 GCTCATATAGCTACCTATTGGCCACTGGCTTATGCTCTCTCTCTATCAGTATTTGTA 601

Qy 1257 TCCATTGGCTCA 1269

Db 602 CCCATGGCAGTCA 614

RESULT 6

ABR46445

ID ABA64445 standard; DNA; 668 BP.

XX AC ABA64445;

XX XX 01-FEB-2002 (first entry)

XX XX Human foetal liver single exon nucleic acid probe #12750.

XX XX

Human; foetal liver; gene expression; single exon nucleic acid probe; as	Human; foetal liver; gene expression; single exon nucleic acid probe; as
Homo sapiens.	Homo sapiens.
WO200157277-A2.	WO200157277-A2.
09-AUG-2001.	09-AUG-2001.
30-JAN-2001; 2001WO-US00669.	30-JAN-2001; 2001WO-US00669.
04-FEB-2000; 2000US-0180312.	04-FEB-2000; 2000US-0180312.
26-MAY-2000; 2000US-0207456.	26-MAY-2000; 2000US-0207456.
30-JUN-2000; 2000US-0608408.	30-JUN-2000; 2000US-0608408.
03-AUG-2000; 2000US-0632366.	03-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0234687.	21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0236359.	27-SEP-2000; 2000US-0236359.
04-OCT-2000; 2000GB-0024263.	04-OCT-2000; 2000GB-0024263.
(MOLE-) MOLECULAR DYNAMICS INC.	(MOLE-) MOLECULAR DYNAMICS INC.
Penn SG, Hanzel DK, Chen W, Rank DR;	Penn SG, Hanzel DK, Chen W, Rank DR;
WPI; 2001-483447/52.	WPI; 2001-483447/52.
Human genome-derived single exon nucleic acid probes useful for	Human genome-derived single exon nucleic acid probes useful for
analyzing gene expression in human fetal liver -	analyzing gene expression in human fetal liver -
Claim 4; SEQ ID NO 12750; 639pp + sequence listing; English.	Claim 4; SEQ ID NO 12750; 639pp + sequence listing; English.
The invention relates to a single exon nucleic acid probe for	The invention relates to a single exon nucleic acid probe for
measuring human gene expression in a sample derived from human foetal	measuring human gene expression in a sample derived from human foetal
liver. The single exon nucleic acid probes may be used for predicting,	liver. The single exon nucleic acid probes may be used for predicting,
measuring and displaying gene expression in samples derived from human	measuring and displaying gene expression in samples derived from human
fetal liver. The present sequence is a single exon nucleic acid	fetal liver. The present sequence is a single exon nucleic acid
probe of the invention.	probe of the invention.
Note: The sequence data for this patent did not form part of the	Note: The sequence data for this patent did not form part of the
printed specification, but was obtained in electronic format directly	printed specification, but was obtained in electronic format directly
from WIPO at ftp.wipo.int/pub/published_pct_sequences.	from WIPO at ftp.wipo.int/pub/published_pct_sequences.
Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;	Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
Query Match 19.6%; Score 272.2; DB 22; Length 668;	Query Match 19.6%; Score 272.2; DB 22; Length 668;
Best Local Similarity 65.3%; Pred. No. 8.4e-73;	Best Local Similarity 65.3%; Pred. No. 8.4e-73;
Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps	Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps
Qy 657 ATTTTCCTGGTATCTGTACCTATGGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 716	Qy 657 ATTTTCCTGGTATCTGTACCTATGGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 716
2 ATTTTCCTGTTATCAGTTTACTTATGGGCCATTGCGTGCATATATCTGCCATCCAGAT 61	2 ATTTTCCTGTTATCAGTTTACTTATGGGCCATTGCGTGCATATATCTGCCATCCAGAT 61
Qy 717 CAAGTACGATGACTACAGATTGCGCTTGGGCCACTAGAGTCTCTGCAATCACCATCTG 776	Qy 717 CAAGTACGATGACTACAGATTGCGCTTGGGCCACTAGAGTCTCTGCAATCACCATCTG 776
62 CAGCAATGATGATCTATCCATTAAAGCTACCGCCGATAGAAATCTTCTGTCTGCGTATGTG 121	62 CAGCAATGATGATCTATCCATTAAAGCTACCGCCGATAGAAATCTTCTGTCTGCGTATGTG 121
Qy 777 GCGGACATTGGAGATCACATTCGCGCTCTCTGATCTCTGCTCTCAGCCACTTTTGAA 836	Qy 777 GCGGACATTGGAGATCACATTCGCGCTCTCTGATCTCTGCTCTCAGCCACTTTTGAA 836
122 GCGTTTTTGGAGGTATCTCAGCTGATGACTCTGGCAATTTTCATTGCATCTCTGAA 181	122 GCGTTTTTGGAGGTATCTCAGCTGATGACTCTGGCAATTTTCATTGCATCTCTGAA 181
Qy 837 ATTGAAGGCTGTGCCCTTCCCTAGTGTCTCAACTCTCTGATCATCTCTTTGAGCCCTGGAT 896	Qy 837 ATTGAAGGCTGTGCCCTTCCCTAGTGTCTCAACTCTCTGATCATCTCTTTGAGCCCTGGAT 896
182 ACTGAAGAGCCTACCCGTTTGTGTTAATCATATATTTGTATCATATTTGTGGCACCGTGGCT 241	182 ACTGAAGAGCCTACCCGTTTGTGTTAATCATATATTTGTATCATATTTGTGGCACCGTGGCT 241
Qy 897 TAAGTTCTGGAGAAGTGGTGCCAGATGCCAATAACATTGAGAAAACCTTCAGCCGGGT 956	Qy 897 TAAGTTCTGGAGAAGTGGTGCCAGATGCCAATAACATTGAGAAAACCTTCAGCCGGGT 956
242 GGAGTTTGGAAAAGTGGAGCTCATCTTCTGGCAACAAAGAAATAATTCCTAATATGGT 301	242 GGAGTTTGGAAAAGTGGAGCTCATCTTCTGGCAACAAAGAAATAATTCCTAATATGGT 301
Qy 957 CGGCACTCTGGTGGTCTGATTTTCAGTCACCATCTCTATGCTGGCATCAACTTCTCTTG 1016	Qy 957 CGGCACTCTGGTGGTCTGATTTTCAGTCACCATCTCTATGCTGGCATCAACTTCTCTTG 1016
302 GGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCTGCCATCAACTTCTCTTG 361	302 GGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCTGCCATCAACTTCTCTTG 361
Qy 1017 CTGGTCAGCTTTGCAAGTTGAGGTTGGCAGACAGAGATCTCGTGCACAAAGGGCAGAACTG 1076	Qy 1017 CTGGTCAGCTTTGCAAGTTGAGGTTGGCAGACAGAGATCTCGTGCACAAAGGGCAGAACTG 1076
362 CTGGTCAGCAGTGAACACTCGACTTGTGATGACAAATAAATTAATTCAGCGGAGACAGAGGTG 421	362 CTGGTCAGCAGTGAACACTCGACTTGTGATGACAAATAAATTAATTCAGCGGAGACAGAGGTG 421

Query Match 19.6%; Score 272.2; DB 22; Length 668;
Best Local Similarity 65.3%; Pred. No. 8.4e-73;
Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps 0;

QY 657 ATTTTCCCTGGTATCTGTCACCTATGGGCGCCACCCCTTTGCAATATATGCTGCTATCCAGAT 716
DB 2 ATTTTCCCTGGTATCTGTCACCTATGGGCGCCACCCCTTTGCAATATATGCTGCTATCCAGAT 61

QY 717 CAAGTACGATGACTACAGATTTCCGCTTGGGCGCCACCCCTTTGCAATATATGCTGCTATCCAGAT 776
DB 62 CAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 121

QY 777 GCGGACATTTGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 836
DB 122 GCGTATTTGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 181

QY 837 ATGGAAGCTGTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 896
DB 182 ACTGAAGAGCTTACCCGCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 241

QY 897 TAAGTTCTGGAAGTGGTGGCCAGATGCCCAATTAACATTTGAGAAAAAATTCAGCCGGGT 956
DB 242 GGAGTTTGGAAAAAGTGGAGCTCACTTCTGCGCAACAAGAAAAATTAATTCGAATGCT 301

QY 957 CGGCACTCTGGTGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1016
DB 302 GGGTACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 361

QY 1017 CTGGTCAGCTTTGCGAGTTGAGGTTGGCAGACAGAGATCTGCTGCGCAACAAGGGGAGAGCTG 1076
DB 362 CTGGTCAGCAGTGAACCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 421

QY 1077 GGGACATATGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1136
DB 422 GGGCCATAGAAATCCCTACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 481

QY 1137 TTTTAAAGTTCTTTGGAGTGAAGTGTACTGAAATTAATTAATTAATTAATTAATTAATTAATTAAT 1196
DB 482 ATTTAGTTCTTTGGAGGGAACCTTTGCTGAAATTTGCTGAAATTTGCTGAAATTTGCTGAAAT 541

QY 1197 GCTCATATTGCTTATGCTGATTTCCATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1256
DB 542 GCTCATATAAGCTACCTATTTGGCCACTGGCTTTATGCTTCTTCTTCTTCTTCTTCTTCTTCT 601

QY 1257 TCCATTGGCCTCA 1269
DB 602 CCCATGGCAGTCA 614

RESULT 8

AAK12903
ID AAK12903 standard; DNA; 668 BP.
XX AC AAK12903;
XX DT 05-NOV-2001 (first entry)
DE Human brain expressed single exon probe SEQ ID NO: 12894.
KW Human; brain expressed exon; gene expression analysis; probe;
KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
KW epilepsy; cancer; ss.
OS Homo sapiens.
PN WO200157275-A2.
XX 09-AUG-2001.
PD 30-JAN-2001; 2001WO-US00667.
XX 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-483446/52.
XX Single exon nucleic acid probes for analyzing gene expression in human
XX brains -
XX Example 4; SEQ ID NO: 12894; 650pp + Sequence Listing; English.
XX The present invention provides a number of single exon nucleic acid
XX probes which are derived from genomic sequences expressed in the human
XX brain. They can be used to measure gene expression in brain cell samples,
XX which may enable the diagnosis and improved treatment of nervous system
XX diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
XX epilepsy and cancers. The present sequence is one of the probes of the
XX invention.
XX Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match 19.6%; Score 272.2; DB 22; Length 668;
Best Local Similarity 65.3%; Pred. No. 8.4e-73;
Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps 0;

QY 657 ATTTTCCCTGGTATCTGTCACCTATGGGCGCCACCCCTTTGCAATATATGCTGCTATCCAGAT 716
DB 2 ATTTTCCCTGGTATCTGTCACCTATGGGCGCCACCCCTTTGCAATATATGCTGCTATCCAGAT 61

QY 717 CAAGTACGATGACTACAGATTTCCGCTTGGGCGCCACCCCTTTGCAATATATGCTGCTATCCAGAT 776
DB 62 CAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 121

QY 777 GCGGACATTTGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 836
DB 122 GCGTATTTGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 181

QY 837 ATGGAAGCTGTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 896
DB 182 ACTGAAGAGCTTACCCGCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 241

QY 897 TAAGTTCTGGAAGTGGTGGCCAGATGCCCAATTAACATTTGAGAAAAAATTCAGCCGGGT 956
DB 242 GGAGTTTGGAAAAAGTGGAGCTCACTTCTGCGCAACAAGAAAAATTAATTCGAATGCT 301

QY 957 CGGCACTCTGGTGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1016
DB 302 GGGTACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 361

QY 1017 CTGGTCAGCTTTGCGAGTTGAGGTTGGCAGACAGAGATCTGCTGCGCAACAAGGGGAGAGCTG 1076
DB 362 CTGGTCAGCAGTGAACCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 421

QY 1077 GGGACATATGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1136
DB 422 GGGCCATAGAAATCCCTACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 481

QY 1137 TTTTAAAGTTCTTTGGAGTGAAGTGTACTGAAATTAATTAATTAATTAATTAATTAATTAATTAAT 1196
DB 482 ATTTAGTTCTTTGGAGGGAACCTTTGCTGAAATTTGCTGAAATTTGCTGAAATTTGCTGAAAT 541

QY 1197 GCTCATATTGCTTATGCTGATTTCCATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1256
DB 542 GCTCATATAAGCTACCTATTTGGCCACTGGCTTTATGCTTCTTCTTCTTCTTCTTCTTCTTCT 601

QY 1257 TCCATTGGCCTCA 1269
DB 602 CCCATGGCAGTCA 614


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Db      602 CCCATGGCAGTCA 614
RESULT 9
AAK38630
ID      AAK38630 standard; DNA; 668 BP.
XX
AC      AAK38630;
XX
DT      06-NOV-2001 (first entry)
XX
DE      Human bone marrow expressed single exon probe SEQ ID NO: 13187.
XX
KW      Human; bone marrow expressed exon; gene expression analysis; probe;
KW      microarray; cancer; leukaemia; lymphoma; myeloma; ss.
XX
OS      Homo sapiens.
XX
PN      WO200157276-A2.
XX
PD      09-AUG-2001.
XX
PF      30-JAN-2001; 2001WO-US00668.
XX
PR      04-FEB-2000; 2000US-0180312.
PR      26-MAY-2000; 2000US-0207456.
PR      30-JUN-2000; 2000US-0608408.
PR      03-AUG-2000; 2000US-0632366.
PR      21-SEP-2000; 2000US-0234687.
PR      27-SEP-2000; 2000US-0236359.
PR      04-OCT-2000; 2000GB-0024263.
XX
PA      (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI      Penn SG, Hanzel DK, Chen W, Rank DR;
XX
PI      WPI; 2001-488900/53.
XX
DR      Human genome-derived single exon nucleic acid probes useful for
DR      analyzing gene expression in human bone marrow -
XX
PS      Example 4; SEQ ID NO: 13187; 658pp + Sequence Listing; English.
XX
CC      The present invention provides a number of single exon nucleic acid
CC      probes which are derived from genomic sequences expressed in the human
CC      bone marrow. They can be used to measure gene expression in bone marrow
CC      samples, which may enable the improved diagnosis and treatment of cancers
CC      such as lymphoma, leukaemia and myeloma. The present sequence is one of
CC      the probes of the invention.
XX
SQ      Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
Query Match      19.6%; Score 272.2; DB 22; Length 668;
Best Local Similarity 65.3%; Pred. No. 8.4e-73;
Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps 0;
QY      657 ATTTTCCCTGGTATCTGTACCTATGGGCGCCACCTTTTGAATATGTTGGCTATCCAGAT 716
Db      2 ATTTTCCCTGGTATCTGTATGCGCCATTCGTCGAATATATGTCGCCATCCAGAT 61
QY      717 CAAGTACGATGACTACAGATTCGCTTGGCCACCTAGAAAGTCTCTGCATCACCATCTG 776
Db      62 CAGCAATGATGATCTACTACCAATTAAGCTACCGCGGAGAGAAATTTCTGTGTCGTGATGTG 121
QY      777 GGGGACATGGAGATCACATTCGCGCTCTCTGATTCGTGGTCTCTCTCAGCCACTTTGAA 836
Db      122 GCGTTTTTGGAGGTTATCTCAGCTGATGACTCTGGCAATTTTTCATTCGATCTCTGAA 181
QY      837 ATTTGAAGGCTGTGCCCTCTCTAGTGTCTCAACTTCTCTGATCATCTCTTTGAGCCCTGGAT 896
Db      182 ACTGAAGACCTACCGCTTTTGTATATCATATATTTGTATCATCTTTGGCCACCGTGGCT 241
QY      897 TAAGTTCTGGAGAAGTGTGCCAGATGCCAATAACATTGAGAAAAAATCTTACGCCGGT 956

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Db      242 GGAGTTTGGAAAAGTGGAGCTCATCTTCTGGCAACAAAGAAAATAATTCCAATATGGT 301
QY      957 CGGCACCTCTGGTGGTCTGATTTCACTCACCATCTCTATGCTGGCATCAACTTCTCTTG 1016
Db      302 GGGTACAGTACTGATGCTTTTCTTGATCAGACTGCTATATGCTGCCATCAACTTCTCCTG 361
QY      1017 CTGGTCAGCTTTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTGCACAAAGGGCAGAACTG 1076
Db      362 CTGGTCAGCAGTGAAACTGCAGTTTGCAGATGACAAATAATTTGACGGGAGACAGAGTG 421
QY      1077 GGCACATATGGGCTGCACCTATATAGTGTGAGGTTGGTAGAGAAATGTGATCTTTGGT 1136
Db      422 GGGCCATAGATCTACACTACAGCTTTCAGTTTTTTAGAAAATGTGATATGATTTGGT 481
QY      1137 TTTTAAAGTCTTTGGAGTGAAAGTGTGTACTGAATTAATCTTCTTGTGATTCGCTTGCA 1196
Db      482 ATTTAGGTTCTTTGGAGGGAACCTTTGCTGAAATTTGTGACTCATTAATTTGCCGTGCA 541
QY      1197 GCTCATTATGCTTATCTATGATTTCCATTTGCTTCATGCTCTCTTTTCTCCAGTACTTGA 1256
Db      542 GCTCATATAAGCTACCTATTTGCCCATCTGCTTTATGCTCTCTCTTATCAGTATTTGTA 601
QY      1257 TCCATTGGCGTCA 1269
Db      602 CCCATGGCAGTCA 614
RESULT 10
AAI19430
ID      AAI19430 standard; DNA; 668 BP.
XX
AC      AAI19430;
XX
DT      12-OCT-2001 (first entry)
XX
DE      Probe #9363 for gene expression analysis in human cervical cell sample.
XX
KW      Probe; human; microarray; gene expression; cervical epithelial cell;
KW      cervical cancer; ss.
XX
OS      Homo sapiens.
XX
PN      WO200157278-A2.
XX
PD      09-AUG-2001.
XX
PF      30-JAN-2001; 2001WO-US00670.
XX
PR      04-FEB-2000; 2000US-0180312.
PR      26-MAY-2000; 2000US-0207456.
PR      30-JUN-2000; 2000US-0608408.
PR      03-AUG-2000; 2000US-0632366.
PR      21-SEP-2000; 2000US-0234687.
PR      27-SEP-2000; 2000US-0236359.
PR      04-OCT-2000; 2000GB-0024263.
XX
PA      (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI      Penn SG, Hanzel DK, Chen W, Rank DR;
XX
PI      WPI; 2001-488901/53.
XX
DR      Human genome-derived single exon nucleic acid probes useful for
DR      analyzing gene expression in human cervical epithelial cells -
XX
PS      Claim 25; SEQ ID No 9363; 487pp; English.
XX
CC      The present invention relates to human single exon nucleic acid probes
CC      (SENP). The present sequence is one such probe. The SENPs are derived
CC      from human HeLa cells. The SENPs can be used to produce a single exon
CC      microarray, which can be used for measuring human gene expression in a
CC      sample derived from human cervical epithelial cells. By measuring gene

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CC expression, the probes are therefore useful in grading and/or staging
CC of diseases of the cervix, notably cervical cancer.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX
SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
Query Match 19.6%; Score 272.2; DB 22; Length 668;
Best Local Similarity 65.3%; Pred. No. 8.4e-73;
Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps 0;
QY 657 ATTTTCCCTGGTATCTGTCACCTATGGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 716
Db ATTTTCCCTGGTATCTGTCACCTATGGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 61
QY 717 CAAGTACGATGACTACAGATTCGGCTTTGGGCCACCTAGAGTCTCTGTCATCACCATCTG 776
Db CAAGTACGATGACTACAGATTCGGCTTTGGGCCACCTAGAGTCTCTGTCATCACCATCTG 716
QY 62 CAGCAATGATGATACCTAATTAAGCTACCGCGATAGAAATTTCTGTGTGCTGATGTG 121
Db CAGCAATGATGATACCTAATTAAGCTACCGCGATAGAAATTTCTGTGTGCTGATGTG 62
QY 777 GGGGACATTTGGAGATCACCTTCCCGCTCTCTGATCTCTGCTCTCTCAGCCACTTTGAA 836
Db GGGGACATTTGGAGATCACCTTCCCGCTCTCTGATCTCTGCTCTCTCAGCCACTTTGAA 121
QY 122 GGGTATTTGGAGATTTCTCAGCTAGTACTCTGGCAATTTTTCATTCATCTCTGAA 181
Db GGGTATTTGGAGATTTCTCAGCTAGTACTCTGGCAATTTTTCATTCATCTCTGAA 122
QY 837 ATTTAGGCTGTGCTTCTCTAGTCTCACTTCCCTGATCATCTCTTTGAGCCCTGGAT 896
Db ATTTAGGCTGTGCTTCTCTAGTCTCACTTCCCTGATCATCTCTTTGAGCCCTGGAT 837
QY 182 ACTGAAGAGCCTACCGTTTGTATCATATATTTTGTATCATTTGTGGCACCCTGGCT 241
Db ACTGAAGAGCCTACCGTTTGTATCATATATTTTGTATCATTTGTGGCACCCTGGCT 182
QY 897 TAAAGTCTGGAGAGTGGTGGCCAGATGCCAATAAATTGAGAAAAAATAATTCACATGGT 301
Db TAAAGTCTGGAGAGTGGTGGCCAGATGCCAATAAATTGAGAAAAAATAATTCACATGGT 897
QY 242 GGGGATTTGGAGAGTGGAGCTCATCTTCTGGCAACAAAGAAAAATAATTCACATGGT 301
Db GGGGATTTGGAGAGTGGAGCTCATCTTCTGGCAACAAAGAAAAATAATTCACATGGT 242
QY 957 CGGCACTCTGGTGGTCTCTGATTTTCACTACCATCTCTATGCTGGCATCAACTTCTCTTG 1016
Db CGGCACTCTGGTGGTCTCTGATTTTCACTACCATCTCTATGCTGGCATCAACTTCTCTTG 301
QY 302 GGGTACAGTACTGATGCTTTTCTTGTATCATCTGCTATGCTGCTCAACTTCTCTTG 361
Db GGGTACAGTACTGATGCTTTTCTTGTATCATCTGCTATGCTGCTCAACTTCTCTTG 1016
QY 1017 CTGCTCAGCTTTTGGAGTGGTGGCAGACAGAGATCTCTGCAACAAAGGGGAGAGCTG 1076
Db CTGCTCAGCTTTTGGAGTGGTGGCAGACAGAGATCTCTGCAACAAAGGGGAGAGCTG 362
QY 362 CTGCTCAGCTTTTGGAGTGGTGGCAGATGATGATGATGATGATGATGATGATGATGATG 421
Db CTGCTCAGCTTTTGGAGTGGTGGCAGATGATGATGATGATGATGATGATGATGATGATG 1076
QY 1077 GGGACATATGGCCCTGCACTATAGTGTGAGGTTGGTGGAGAAATGTGATCATGCTTTGGT 1136
Db GGGACATATGGCCCTGCACTATAGTGTGAGGTTGGTGGAGAAATGTGATCATGCTTTGGT 421
QY 422 GGGCCATAGAAATCTTACACTACAGCTTTTTCAGTTTGTAGAAAAATGTGATGATGATGAT 481
Db GGGCCATAGAAATCTTACACTACAGCTTTTTCAGTTTGTAGAAAAATGTGATGATGATGAT 1136
QY 1137 TTTTAAAGTCTTTGGAGTGAAGAGTGTACTGAAATTAATGCTCATCTTCTGATTCCTTGCA 1196
Db TTTTAAAGTCTTTGGAGTGAAGAGTGTACTGAAATTAATGCTCATCTTCTGATTCCTTGCA 481
QY 482 ATTTAGGTTCTTTGGAGGAAAAAATTTTGTGAAATTTGTGAAATTTTGTGAAATTTTGTG 541
Db ATTTAGGTTCTTTGGAGGAAAAAATTTTGTGAAATTTGTGAAATTTTGTGAAATTTTGTG 1137
QY 1197 GCTCATTTGCTTATCTGATTTTCCATTTGCTTCTGCTTCTTCTTCTTCTTCTTCTTCTG 1256
Db GCTCATTTGCTTATCTGATTTTCCATTTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTG 482

RESULT 11
AA144621
ID AA144621 standard; DNA; 668 BP.

XX
AC AA144621;
XX
DT 17-OCT-2001 (first entry)
DE Probe #13307 used to measure gene expression in human placenta sample.
KW Probe; microarray; human; placenta; antenatal diagnosis;
XX Genetic disorder; ss.
XX Homo sapiens.
XX WO200157272-A2.

XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00663.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488997/53.
XX
PT Human genome-derived single exon nucleic acid probes useful for
XX analyzing gene expression in human placenta -
XX
PS Claim 25; SEQ ID No 13307; 654pp; English.
XX
CC The present invention relates to single exon nucleic acid probes (SENP).
CC The present sequence is one such probe. The probes are useful for
CC producing a microarray for predicting, measuring and displaying gene
CC expression in samples derived from human placenta. The probes are useful
CC for antenatal diagnosis of human genetic disorders.
XX
SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match 19.6%; Score 272.2; DB 22; Length 668;
Best Local Similarity 65.3%; Pred. No. 8.4e-73;
Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps 0;

QY 657 ATTTTCCCTGGTATCTGTCACCTATGGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 716
Db ATTTTCCCTGGTATCTGTCACCTATGGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 61
QY 717 CAAGTACGATGACTACAGATTTGGCTTTGGGCCACCTAGAGTCTCTGTCATCACCATCTG 776
Db CAAGTACGATGACTACAGATTTGGCTTTGGGCCACCTAGAGTCTCTGTCATCACCATCTG 121
QY 777 GGGGACATTTGGAGATCACCTTCCCGCTCTCTGATCTCTGCTCTCTCAGCCACTTTGAA 836
Db GGGGACATTTGGAGATCACCTTCCCGCTCTCTGATCTCTGCTCTCTCAGCCACTTTGAA 181
QY 122 GGGTATTTGGAGATTTCTCAGCTAGTACTCTGGCAATTTTTCATTCATCTCTGAA 181
Db GGGTATTTGGAGATTTCTCAGCTAGTACTCTGGCAATTTTTCATTCATCTCTGAA 837
QY 837 ATTTAGGCTGTGCTTCTCTAGTCTCACTTCCCTGATCATCTCTTTGAGCCCTGGAT 896
Db ATTTAGGCTGTGCTTCTCTAGTCTCACTTCCCTGATCATCTCTTTGAGCCCTGGAT 182
QY 182 ACTGAAGAGCCTACCGTTTGTATCATATATTTTGTATCATTTGTGGCACCCTGGCT 241
Db ACTGAAGAGCCTACCGTTTGTATCATATATTTTGTATCATTTGTGGCACCCTGGCT 897
QY 897 TAAAGTCTGGAGAGTGGTGGCCAGATGCCAATAAATTGAGAAAAAATAATTCACATGGT 301
Db TAAAGTCTGGAGAGTGGTGGCCAGATGCCAATAAATTGAGAAAAAATAATTCACATGGT 242
QY 242 GGGGATTTGGAGAGTGGAGCTCATCTTCTGGCAACAAAGAAAAATAATTCACATGGT 301
Db GGGGATTTGGAGAGTGGAGCTCATCTTCTGGCAACAAAGAAAAATAATTCACATGGT 957
QY 957 CGGCACTCTGGTGGTCTCTGATTTTCACTACCATCTCTATGCTGGCATCAACTTCTCTTG 1016
Db CGGCACTCTGGTGGTCTCTGATTTTCACTACCATCTCTATGCTGGCATCAACTTCTCTTG 302
QY 302 GGGTACAGTACTGATGCTTTTCTTGTATCATCTGCTATGCTGCTCAACTTCTCTTG 361
Db GGGTACAGTACTGATGCTTTTCTTGTATCATCTGCTATGCTGCTCAACTTCTCTTG 1017
QY 1017 CTGCTCAGCTTTTGGAGTGGTGGCAGACAGAGATCTCTGCAACAAAGGGGAGAGCTG 1076
Db CTGCTCAGCTTTTGGAGTGGTGGCAGACAGAGATCTCTGCAACAAAGGGGAGAGCTG 362
QY 362 CTGCTCAGCTTTTGGAGTGGTGGCAGATGATGATGATGATGATGATGATGATGATGATG 421
Db CTGCTCAGCTTTTGGAGTGGTGGCAGATGATGATGATGATGATGATGATGATGATGATG 1077
QY 1077 GGGACATATGGCCCTGCACTATAGTGTGAGGTTGGTGGAGAAATGTGATCATGCTTTGGT 1136
Db GGGACATATGGCCCTGCACTATAGTGTGAGGTTGGTGGAGAAATGTGATCATGCTTTGGT 422
QY 422 GGGCCATAGAAATCTTACACTACAGCTTTTTCAGTTTGTAGAAAAATGTGATGATGATGAT 481
Db GGGCCATAGAAATCTTACACTACAGCTTTTTCAGTTTGTAGAAAAATGTGATGATGATGAT 1137
QY 1137 TTTTAAAGTCTTTGGAGTGAAGAGTGTACTGAAATTAATGCTCATCTTCTGATTCCTTGCA 1196
Db TTTTAAAGTCTTTGGAGTGAAGAGTGTACTGAAATTAATGCTCATCTTCTGATTCCTTGCA 482
QY 482 ATTTAGGTTCTTTGGAGGAAAAAATTTTGTGAAATTTGTGAAATTTTGTGAAATTTTGTG 541
Db ATTTAGGTTCTTTGGAGGAAAAAATTTTGTGAAATTTGTGAAATTTTGTGAAATTTTGTG 1197
QY 1197 GCTCATTTGCTTATCTGATTTTCCATTTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTG 1256
Db GCTCATTTGCTTATCTGATTTTCCATTTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTG 421

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Db 542 GCTCATATAAGCTACCTATTGGCCACTGGCTTATGCTCTCTCTCTATCAGTATTGTA 601
Qy 1257 TCCATTGGCTCA 1269
Db 602 CCCATGGCAGTCA 614

RESULT 12
AAI05155
ID AAI05155 standard; DNA; 668 BP.
XX
AC AAI05155;
DT 09-OCT-2001 (first entry)
XX
DE Probe #5146 used to measure gene expression in human breast sample.
XX
KW Probe; human; breast disease; breast cancer; development disorder; ss;
KW inflammatory disease; proliferative breast disease; non-carcinoma tumour.
XX
OS Homo sapiens.
XX
PN WO200157270-A2.
XX
PD 09-AUG-2001.
XX
PF 29-JAN-2001; 2001WO-US00661.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0623366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-476286/51.
XX
PT Novel single exon nucleic acid probe used to measuring gene expression
PT in a human breast -
XX
XX Claim 25; SEQ ID No 5146; 322pp; English.
XX
CC The present invention relates to novel single exon nucleic acid probes.
CC The present sequence is one such probe. The probes are useful for
CC measuring human gene expression in a human breast sample, where the probe
CC hybridises at high stringency to a nucleic acid expressed in the human
CC breast. The probes are useful for predicting, diagnosing, grading,
CC staging, monitoring and prognosing diseases of the human breast.
CC particularly those diseases with polygenic aetiology. The diseases
CC include: breast cancer, disorders of development, inflammatory diseases
CC of the breast, fibrocystic changes, proliferative breast disease and
CC non-carcinoma tumours.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pt_sequences.
XX
XX Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match 19.6%; Score 272.2; DB 22; Length 668;
Best Local Similarity 65.3%; Pred. No. 8.4e-73;
Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps 0;

Qy 657 ATTTTCCCTGGTATCTGTACCTATGGGCCACCCCTTTGGCAATATGTTGGCTATCCAGAT 716
Db 2 ATTTTCCCTGGTATCTGTATGTTGGGCCATTCGCTGCATATATCTGGCCATCCAGAT 61
Qy 717 CAAGTACGATGACTACAAAGATTGCGCTTGGGGCCACTAGAAATGCTCTCTGCATCACCATCTG 776

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Db 62 CAGCAATGATGATACTACCAATTAAGCTACCGCGAGTAGAATCTTCTGTGCTGATGTG 121
Qy 777 GCGGACATTGGAGATACATTCGCCGCTCTGATTCGTGGTGCTCTTCTCAGCCACTTTGAA 836
Db 122 GCGTTTTTTGGAGGTTATCTCACGTGTAGTGACTCTGGCAATTTTTCATTGCATCTCTGAA 181
Qy 837 ATTGAAGGCTGTGCCCTTCTAGTGTCTCAACTTCCGTGATCATCTCTTTGAGCCCTGGAT 896
Db 182 ACTGAAGAGCCCTACCCGTTTTGTTAATCATATATATTTGTATCATTTGTGGCACCGTGGCT 241
Qy 897 TAAGTTTCTGGAGAAGTGTGCCCAGATGCCCAATAACATTGAGAAAAAATCTCAGCCGGGT 956
Db 242 GGAGTTTGGAAAAAGTGGAGCTCATCTTCTCGCAACAAGAAAAATAATTCCAATATGGT 301
Qy 957 CGGCACTCTGGTGCTCTGATTTTCAGTCAACATCCCTCTATGCTGGCATCAACTTCTCTTG 1016
Db 302 GGGTCACAGTACTGATGCTTTTCTTGATCACTGCTGCTATATGCTGCCATCAACTTCTCCTG 361
Qy 1017 CTGCTCAGCTTTGCAAGTTGAGGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTG 1076
Db 362 CTGGTCAGCAGTGAACCTGCAAGTTGTGAGTGAACAAAATAATTGACGGGAGACAGAGGTG 421
Qy 1077 GGGCATATGGGCTCCACTATAGTGTGAGGTTGGTAGAAGATGTGATCATGTCTTGGT 1136
Db 422 GGGCATAGAATCCTACACTACAGCTTTTCAGTTTTTAGAAAATGTGATATGATATGGT 481
Qy 1137 TTTTAAGTTCTTTGGAGTGAAGTGTACTGAATTAATCTGCTCATCTCTTGAATGCCCTTGCA 1196
Db 482 ATTTAGGTTCTTTGGAGGAAAACTTTGCTGAATTTGTTGACTCATTAATTTGCCGTGCA 541
Qy 1197 GCTCATATTGCTTATCTGATTTCCATTTGGCTTCATGCTCTTTTCTTCCAGTACTGCA 1256
Db 542 GCTCATCATAGCTACCTATTGGCCACTGGCTTTATGCTCTCTTCTATCAGTATTTGTA 601
Qy 1257 TCCATTGGCTCA 1269
Db 602 CCCATGGCAGTCA 614

RESULT 13
ABS12699
ID ABS12699 standard; DNA; 668 BP.
XX
AC ABS12699;
XX
DT 19-AUG-2002 (first entry)
XX
DE Human genome-derived single exon probe ORF from lung SEQ ID No 12690.
XX
KW Human; ds; single exon probe; asthma; lung cancer; COPD; ILD;
KW chronic obstructive pulmonary disease; interstitial lung disease;
KW familial idiopathic pulmonary fibrosis; neurofibromatosis;
KW tuberosus sclerosis; Gaucher's disease; Niemann-Pick disease;
KW Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;
KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagener syndrome;
KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
KW primary ciliary dyskinesia; pulmonary hypertension;
KW hyaline membrane disease; open reading frame; ORF.
XX
XX Homo sapiens.
OS
XX
XX WO200186003-A2.
XX
XX 15-NOV-2001.
XX
XX 30-JAN-2001; 2001WO-US00665.
XX
XX 04-FEB-2000; 2000US-180312P.
XX 26-MAY-2000; 2000US-207456P.
XX 30-JUN-2000; 2000US-0608408.
XX 03-AUG-2000; 2000US-0623366.
XX 21-SEP-2000; 2000US-234687P.

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PR 27-SEP-2000; 2000US-236359P.
PR 04-OCT-2000; 2000GB-0024263.
XX (MOLE-) MOLECULAR DYNAMICS INC.
PA Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2002-114183/15.
DR
XX Spatially-addressable set of single exon nucleic acid probes, used to
PT measure gene expression in human lung samples -
XX
PS Claim 4; SEQ ID No 12690; 634pp; English.
XX
CC The invention relates to a spatially-addressable set of single exon
CC nucleic acid probes for measuring gene expression in a sample derived
CC from human lung comprising single exon nucleic acid probes having one of
CC 12614 nucleic acid sequences mentioned in the specification, or their
CC complements or the 12387 open reading frames derived from the 12614
CC probes. Also included are a microarray comprising the novel set of
CC probes; the novel set of probes which hybridize at high stringency to a
CC nucleic acid expressed in the human lung; measuring gene expression in a
CC sample derived from human lung, comprising (a) contacting the array with
CC a collection of detectably labeled nucleic acids derived from human lung
CC mRNA, and (b) measuring the label detectably bound to each probe of
CC the array; identifying exons in a eukaryotic genome, comprising
CC (a) algorithmically predicting at least one exon from genomic sequences
CC of the eukaryote; and (b) detecting specific hybridisation of detectably
CC labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
CC having a fragment identical to the predicted exon, the probe is included
CC in the above mentioned microarray; assigning exons to a single gene,
CC comprising (a) identifying exons from genomic sequence by the method
CC above and (b) measuring the expression of each of the exons in several
CC tissues and/or cell types using hybridisation to a single exon
CC microarrays having a probe with the exon, where a common pattern of
CC expression of the exons in the tissues and/or cell types indicates that
CC the exons should be assigned to a single gene; a peptide comprising one
CC of 12011 sequences, mentioned in the specification, or encoded by the
CC probes/open reading frames (ORF). The probes are used for gene
CC expression analysis, and for identifying exons in a gene, particularly
CC using human lung derived mRNA and for the study of lung diseases
CC such as asthma, lung cancer, chronic obstructive pulmonary disease
CC (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
CC fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,
CC Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
CC haemosiderosis, pulmonary histiocytosis, lymphangioleiomyomatosis,
CC pulmonary alveolar proteinosis, Karsenger syndrome, fibrocystic
CC pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension
CC and hyaline membrane disease. The present sequence is a single exon
CC probe open reading frame of the invention.
CC Note: The sequence data for this patent did not form part
CC of the printed specification, but was obtained in electronic
CC format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
Query Match 19.6%; Score 272.2; DB 24; Length 668;
Best Local Similarity 65.3%; Pred. No. 8.4e-73;
Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps 0;
Qy 657 ATTTTCCCTGTATCTGTACATATGCGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 716
Db 2 ATTTTCCCTGTATCTGTATCTGTATGCGGCCATTCGCTGCAATATCTGCGCCATCCAGAT 61
Qy 717 CAAGTACGATCTACAGATTCGCTTGGCCACTAGACTCTCTGCATCACCATCTG 776
Db 62 CAGCAATGATGATCTACTACATTAAGCTACCGCCGATAGAAATTCCTGTGCTGATG 121
Qy 777 GCGGACATTTGAGATCACTTCCCGCTCTGATTCGTGCTCTTCTCAGGCCATTTGAA 836
Db 122 GCGTTTTTGGAGGTATCTCAGCTGATGATGATCTGCAATTTTCATGTCATCTGAA 181

Qy 837 ATTGAAGGCTGTGCCCTTCCTAGTCTCAACTTCTCTGATCATCTCTTTGAGCCCTGGAT 896
Db 182 ACTGAAGAGCCTACCCGTTTGTGTTAAATCATATATTTGTAATTTGTTGGCACCGTGGCT 241
Qy 897 TAAGTTCTGGAGAAAGTGTGCGCCAGATGCCCAATAACATTTGAGAAAAAATTCAGCCGGGT 956
Db 242 GGAGTTTTTGGAAAGTGGAGCTCATCTTCTGCGCAACAAGAAAAATAATTCCAATATGCT 301
Qy 957 CGGCACTCTGGTGTCTGATTTTCAGTCACCATCTCTATGCTGCGCAACAATTCCTCTT 1016
Db 302 GGGTACAGTACTGATGCTTTTCTTGTATGATCAGCTGCTATATGCTGCTCACTCAACTTCTCTG 361
Qy 1017 CTGGTCACTTTGGAGTTGAGTTGGCAGACAGAGATCTCGTCGACAAAGGCGACAACTG 1076
Db 362 CTGGTCACTGAGTGAATCTGAGTTGTCAGATGACAAATAATTTGACGGGAGACAGAGTG 421
Qy 1077 GGGACATATGGCCCTGCACTATGATGTGAGGTTGGTAGAGATGTGATCATGCTTGTGCT 1136
Db 422 GGGCCATAGATCTCTACACTACAGCTTTCAGTTTTTACAAAAATGTGATAATGATGCT 481
Qy 1137 TTTTAAGTTCTTTGGAGTGAAGTGTACTGAATTAATCTGCTGATTCCTTGAATTCCTTGA 1196
Db 482 ATTTAGGTTCTTTGGAGGAAAAAATCTTGTCTGAATTTGTTGCTCACTCAATTAATTTGCCGTGCA 541
Qy 1197 GCTCATTTATCTGATCTGATTTCCATTTGGCTTTCATGCTCTCTTTTCTTCCAGTACTTGA 1256
Db 542 GCTCATTAAGCTACCTATTTGGCCACTGGCTTTAATGCTCTCTTCTATCAGTATTTGTA 601
Qy 1257 TCCATTGGCGTCA 1269
Db 602 CCCATGGCAGTCA 614
RESULT 14
ABAS1767
ID ABAS1767 standard; DNA; 471 BP.
XX AC ABAS1767;
XX DT 01-FEB-2002 (first entry)
XX DE Human foetal liver single exon nucleic acid probe #72.
XX KW Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
XX OS Homo sapiens.
XX PN WO200157277-A2.
XX PD 09-AUG-2001.
XX PF 30-JAN-2001; 2001WO-US006659.
XX PR 04-FEB-2000; 2000US-0180312.
XX PR 26-MAY-2000; 2000US-0207456.
XX PR 30-JUN-2000; 2000US-0608408.
XX PR 03-AUG-2000; 2000US-0632366.
XX PR 21-SEP-2000; 2000US-0234687.
XX PR 27-SEP-2000; 2000US-0236359.
XX PR 04-OCT-2000; 2000GB-0024263.
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-483447/52.
XX
XX Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human fetal liver -
XX
PS Claim 1; SEQ ID NO 72; 639pp + sequence listing; English.
XX
CC The invention relates to a single exon nucleic acid probe for

CC measuring human gene expression in a sample derived from human foetal
CC liver. The single exon nucleic acid probes may be used for predicting,
CC measuring and displaying gene expression in samples derived from human
CC fetal liver. The present sequence is a single exon nucleic acid
CC probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 471 BP; 117 A; 94 C; 104 G; 156 T; 0 other;

Query Match 12.7%; Score 176.8; DB 22; Length 471;
Best Local Similarity 61.9%; Pred. No. 1.3e-43;
Matches 280; Conservative 0; Mismatches 172; Indels 0; Gaps 0;

QY 640 AGAGTTGTGCTAATGTTATTTCCCTGATCTCTCACTATGGGCGCCACCTTTGCAAT 699
DB 19 ATAGCATTGCTGATGACATTTTCCTGTTATCAGTTACTTATGGGGCCATTCGCTGCAAT 78
QY 700 ATGTTGGCTATCCAGATCAAGTACGATGACTACAAAGATTTCGCCCTTGGGCCACTAGAAATC 759
DB 79 ATACTGGCCATCCAGATCAGCAATGATGATGATACCAATTAAGCTACCGCGATAGAAATTC 138
QY 760 CTCTGATCACCATTGGCGGACATTCGAGATCATCTCCGCCCTCCCTGATTCCTGCTC 819
DB 139 TTCTGTGCTGATGATGGCGCTTTTTCGAGGTTATCTCACGTGATGACTCTGGCATT 198
QY 820 TTCTCAGCCACTTTGAAATGAAAGCTGTGCCCTTCCTAGTGTCAACTTCCTGATCATC 879
DB 199 TTCAATGCTCTCTGAACTGAAGAGCTACCCGCTTTTGTATATCATATATTTGTATCA 258
QY 880 CTCTTTGAGCCCTGGATTAAAGTTCTGGAGAAAGTGGTCCAGATGCCCAATAACATTGAG 939
DB 259 TTGTTGGCACCCTGGCTGGAGTTTGGAAAGTGAGCTCATCTCTGGCAACAAGAA 318
QY 940 AAAAATTCAGCCGGTGGGCTGCTGGTGGTCTGATTTTCAGTCACTACCTCTATGCT 999
DB 319 AATAATTCCAATATGTTGGGTACAGTACTGATGCTTTTCTTGATCAGTCTGATATGCT 378
QY 1000 GGCATCAACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1059
DB 379 GCCATCAACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 438
QY 1060 GACAAAGGGCAGAACTGGGGACATATGGGCT 1091
DB 439 GACGGGAGACAGAGTGGGGCCATAGAAATCCT 470

RESULT 15

ABA21596
ID ABA21596 standard; DNA; 471 BP.

XX ABA21596;

AC ABA21596;

DT 23-JAN-2002 (first entry)

DE Probe #62 for gene expression analysis in human heart cell sample.
XX Human; gene expression; heart; microarray; vascular system; probe;
KW cardiovascular disease; hypertension; cardiac arrhythmia;
KW congenital heart disease; ss.

XX Homo sapiens.

OS WO200157274-A2.

PN 09-AUG-2001.

PP 30-JAN-2001; 2001WO-US00666.

XX 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PA Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-48899/53.

XX Single exon nucleic acid probes for analyzing gene expression in human
XX hearts -

PS Claim 1; SEQ ID No 62; 530pp; English.

XX The present invention relates to single exon nucleic acid probes for
XX measuring human gene expression in a sample derived from human heart. The
XX present sequence is one such probe. The probes may be used for
XX predicting, measuring and displaying gene expression in samples derived
XX from the human heart via microarrays. By measuring gene expression, the
XX probes are useful for predicting, diagnosing, grading, staging,
XX monitoring and prognosing diseases of the human heart and vascular system
XX e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
XX congenital heart disease.

XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 471 BP; 117 A; 94 C; 104 G; 156 T; 0 other;

Query Match 12.7%; Score 176.8; DB 22; Length 471;
Best Local Similarity 61.9%; Pred. No. 1.3e-43;
Matches 280; Conservative 0; Mismatches 172; Indels 0; Gaps 0;

QY 640 AGAGTTGTGCTAATGTTATTTCCCTGATCTCTCACTATGGGCGCCACCTTTGCAAT 699
DB 19 ATAGCATTGCTGATGACATTTTCCTGTTATCAGTTACTTATGGGGCCATTCGCTGCAAT 78
QY 700 ATGTTGGCTATCCAGATCAAGTACGATGACTACAAAGATTTCGCCCTTGGGCCACTAGAAATC 759
DB 79 ATACTGGCCATCCAGATCAGCAATGATGATGATACCAATTAAGCTACCGCGATAGAAATTC 138
QY 760 CTCTGATCACCATTGGCGGACATTCGAGATCATCTCCGCCCTCCCTGATTCCTGCTC 819
DB 139 TTCTGTGCTGATGATGGCGCTTTTTCGAGGTTATCTCACGTGATGACTCTGGCATT 198
QY 820 TTCTCAGCCACTTTGAAATGAAAGCTGTGCCCTTCCTAGTGTCAACTTCCTGATCATC 879
DB 199 TTCAATGCTCTCTGAACTGAAGAGCTACCCGCTTTTGTATATCATATATTTGTATCA 258
QY 880 CTCTTTGAGCCCTGGATTAAAGTTCTGGAGAAAGTGGTCCAGATGCCCAATAACATTGAG 939
DB 259 TTGTTGGCACCCTGGCTGGAGTTTGGAAAGTGAGCTCATCTCTGGCAACAAGAA 318
QY 940 AAAAATTCAGCCGGTGGGCTGCTGGTGGTCTGATTTTCAGTCACTACCTCTATGCT 999
DB 319 AATAATTCCAATATGTTGGGTACAGTACTGATGCTTTTCTTGATCAGTCTGATATGCT 378
QY 1000 GGCATCAACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1059
DB 379 GCCATCAACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 438
QY 1060 GACAAAGGGCAGAACTGGGGACATATGGGCT 1091
DB 439 GACGGGAGACAGAGTGGGGCCATAGAAATCCT 470

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